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Electromagnetic Field Theory Weng Cho CHEW1 Fall 2019, Purdue University 1 Updated: December 4, 2019. Contents Preface xi Acknowledgements xii 1 Introduction, Maxwell ' s Equations 1 ... 3 Constitutive Relations, Wave Equation, Electrostatics, and Static Green ' s Function 25

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The coupling between electric and magnetic fields in the time-varying case leads to wave phenomena. This is most easily analyzed for fields which vary sinusoidally, and may thereby be expressed as phasors. 1 Phasors, indicated in this book by the tilde ( “  $\tilde{\phantom{x}}$  ” ), are complex-valued quantities representing the magnitude and phase of the associated sinusoidal waveform.

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